

Appln No. 10/754,009  
Amdt date January 19, 2007  
Reply to Office action of August 22, 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A remote control engine starting device for a vehicle ~~having an immobilizer and a remote engine starter and equipped with a remote engine starting function for starting~~ starting an engine when an engine start command is given from a remote location, comprising: a remote commander; a remote engine starter; and an immobilizer, wherein  
\_\_\_\_\_ said immobilizer comprises an interrogating signal outputting section which outputs an interrogating signal when a signal related to engine starting is received, and an engine start permitting section which gives engine start permission when a remote engine starter code that said remote engine starter outputs in response to said interrogating signal matches a remote engine starter verifying code preregistered in said immobilizer, and  
\_\_\_\_\_ said remote engine starter comprises an engine start signal outputting section which outputs a signal related to engine starting, and a code outputting section which, in response to said interrogating signal, outputs said remote engine starter code preregistered in said remote engine starter.  
\_\_\_\_\_ said remote engine starter comprises an engine start signal outputting section which outputs an engine starting signal, and a code outputting section which in response to an interrogating signal output from said immobilizer, outputs a remote engine starter code preregistered in said remote engine starter.  
\_\_\_\_\_ said immobilizer comprises an interrogating signal outputting section which outputs an interrogating signal upon receiving an engine starting signal output from said remote engine starter, and an engine start permitting section which outputs an engine start permitting signal, wherein  
\_\_\_\_\_ when said remote engine starter receives a remote engine start signal from said remote commander, said engine start signal outputting section outputs said engine starting signal to said

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immobilizer, said interrogating signal outputting section outputs, in response to said engine starting signal, said interrogating signal to said remote engine starter when a remote engine starter verifying code is registered in said immobilizer, said code outputting section outputs said remote engine starter code to said immobilizer in response to said interrogating signal, and when a remote engine starter code matches said remote engine starter verifying code, said immobilizer outputs an engine start permitting signal, and wherein

said remote engine starter receives said interrogating signal for a second time when said remote engine starter code is not output or said remote engine starter code does not match said remote engine starter verifying code, and said engine start permitting signal is output when said interrogating signal is no longer received for a predetermined time.

2. (Currently Amended) A remote control engine starting device for a vehicle as claimed in claim 1, wherein

when a remote commander code transmitted from ~~[[a]]~~said remote commander matches a remote commander verifying code preregistered in said remote engine starter, said engine start signal outputting section of said remote engine starter outputs said ~~signal related to engine~~ starting signal.

3. (Original) A remote control engine starting device for a vehicle as claimed in claim 2, wherein

said remote engine starter code and said remote commander verifying code are the same code.

4. (Original) A remote control engine starting device for a vehicle as claimed in claim 2, wherein

said remote engine starter code and said remote commander verifying code are different codes.

5. (Currently Amended) A remote control engine starting device for a vehicle as claimed in claim 1, wherein

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said immobilizer further comprises an activation signal outputting section which outputs an activation signal to a key cylinder ~~when a signal related to~~upon receiving said engine starting is receivedsignal, and ~~[[an]]~~wherein

~~\_\_\_\_\_ said engine start permitting section which receives~~outputs said engine start permitting signal when a key code which is output from ~~aan~~an IG key in response to said activation signal, ~~and which gives engine start permission when said key code matches a preregistered code, and wherein in~~ said immobilizer includes an, and

~~\_\_\_\_\_ said interrogating signal outputting section which outputs~~ ~~[[an]]~~said interrogating signal to said remote engine starter when ~~an IG key insertion it receives said engine starting signal is not received but said signal related to engine starting, other than said IG key insertion signal, is received but said IG key not being inserted.~~

6. (Currently Amended) A remote control engine starting device for a vehicle as claimed in claim 1, wherein

said immobilizer further comprises an activation signal outputting section which outputs an activation signal to a key cylinder ~~when a signal related to engine starting is received~~upon receiving said engine starting signal, and ~~an~~wherein

~~\_\_\_\_\_ said engine start permitting section which receives~~outputs said engine start permitting signal when a key code which is output from ~~[[a]]~~an IG key in response to said activation signal, ~~and which gives engine start permission when said key code matches a preregistered code, and wherein in~~ said immobilizer includes an, and

~~\_\_\_\_\_ said interrogating signal outputting section which outputs~~ ~~[[an]]~~said interrogating signal to said remote engine starter when ~~said key code is not received~~it does not receive said key code in response to said activation signal.

7. (Currently Amended) A remote control engine starting device for a vehicle ~~having an immobilizer and a remote engine starter and equipped with a remote engine starting function for starting~~starting an engine when an engine start command is given from a remote location~~[[,]] comprising: a remote engine starter; and an immobilizer, wherein~~

said immobilizer comprises an activation signal outputting section which outputs an activation signal to a key cylinder ~~when a signal related to engine starting is received,~~upon receiving an engine starting signal by an IG key, an interrogating signal outputting section which outputs an interrogating signal to said remote engine starter upon receiving an engine starting signal from said remote engine starter, and an engine start permitting section which receives a key code output from a key in response to said activation signal, and which givesoutputs the engine start permitting signal, wherein

said remote engine starter comprises an engine start signal outputting section which outputs said engine starting signal and a code outputting section which outputs a remote engine starter code preregistered in said remote engine starter in response to said interrogating signal which is output from said immobilizer, wherein

said immobilizer outputs an activation signal and said interrogating signal upon receiving said engine starting signal, determines whether or not a key code matches a preregistered code in said immobilizer upon receiving said key code output in response to said activation signal, and determines whether or not said remote engine start permission when said keystarter code matches [[a]]said preregistered code, wherein said immobilizer further comprises an interrogating signal outputting section which outputs an interrogating signal, different from said activation signal, when said signal related to engine starting is received, and an engine start permitting section which gives engine start permission when a remote engine starter code that said remote engine starter outputs in response to said interrogating signal matches a remote engine starter verifying code preregistered in said immobilizer, and said remote engine starter comprises an engine start signal outputting section which outputs a signal related to engine starting when said engine start command is given from a remote location, and a code outputting section which, in response to said interrogating signal, outputs said remote engine starter code preregistered in said remote engine starter. in said immobilizer, when said immobilizer receives a remote engine starter code output in response to said interrogating signal, and wherein

said engine start permitting section outputs an engine start permitting signal when said remote engine starter code matches said preregistered code in said immobilizer.

8. (Currently Amended) A remote control engine starting device for a vehicle as claimed in claim 7, wherein

said immobilizer ~~includes an interrogating signal outputting section which outputs~~ [[an]]said interrogating signal to said remote engine starter when an IG key insertion signal is not received but said signal related to engine starting, other than said IG key insertion signal, is said immobilizer receives said engine starting signal from said remote engine starter while said engine starting signal by said IG key is not being received.

9. (Currently Amended) A remote control engine starting device for a vehicle as claimed in claim 7, wherein

said immobilizer ~~includes an interrogating signal outputting section which outputs said activation signal when said signal related to upon receiving said engine starting is received~~ signal by said IG key, and which outputs [[an]]said interrogating signal to said remote engine starter when it does not receive said key code is not received ~~output~~ in response to said activation signal.

10. (Cancelled)

11. (Currently Amended) A remote control engine starting device for a vehicle as claimed in claim 1, wherein

said engine start permitting section ~~for giving said engine start permission~~ does not ~~give~~ output said engine start ~~permission~~ permitting signal when said remote engine starter code has failed to match said remote engine starter verifying code a predetermined number of times.

12. (Currently Amended) A remote control engine starting device for a vehicle as claimed in claim 7, wherein

said engine start permitting section ~~for giving~~ does not output said engine start ~~permission~~ does not give said engine start permission permitting signal when said key code or said remote engine starter code has failed to match said remote engine starter verifying code a predetermined number of times does not match said preregistered code in said immobilizer.